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CENTRAL INTELLIGENCE AGENCY

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SOURCE Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE CHITA SANITATION-EPIDEMIOLOGICAL LABORATORY, USSR

"Effectiveness of Water Chlorination at Low Temperatures," E. D. Petryayev, N. T. Tayurskaya, Sanitation Epidemiological Lab, Chita

"Gigiyena i Sanitariya," Vol 10, No 9, 1945, pp 52-3

Chlorination was carried out at 18, 20, 1, and 2° with equally good results. Contact between active Cl and water did not have to be lengthened at temperatures close to 0°, and the disinfecting power of $CaOCl_2$ remained the same within the range 1-20°. Usual dose of chlorinated lime, sufficient to give 0.2-0.4 mg residual Cl per liter was applied to drinking water contaminated with E. coli (200,000 per cc). Concordant results were obtained after different intervals of time, namely: at 1-2° the bacterial count dropped to 19, 8, 12, and 3 bacteria per cc after 0.5, 1, 3, and 6 hours, respectively. Slight rise after 3 hours was probably due to reduced residual Cl concentration.

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